

WHAT IS CLAIMED IS:

1. A laminate comprising at least a first layer of polyethylene terephthalate directly adhered to a second layer of thermoplastic material, wherein said second layer of thermoplastic material is selected from the group consisting of Copolyester Barrier Materials, Phenoxy-type Thermoplastics, Polyamides, polyethylene naphthalate, polyethylene naphthalate copolymers, polyethylene naphthalate/polyethylene terephthalate blends, polyethylene terephthalate and combinations thereof; and said polyethylene terephthalate in the first layer has an isophthalic acid content of at least about 2% by weight.
2. A laminate according to Claim 1, wherein the isophthalic acid content of the polyethylene terephthalate in the first layer is about 2% - 10% by weight.
3. A laminate according to Claim 1, wherein the isophthalic acid content of the polyethylene terephthalate in the first layer is about 4% - 5% by weight.
4. A laminate according to Claim 1, wherein the isophthalic acid content of the polyethylene terephthalate in the first layer is about 3% - 8% by weight.
5. A laminate according to Claim 1, wherein the isophthalic acid content of the polyethylene terephthalate in the first layer is about 5% - 10% by weight.
6. A laminate according to Claim 1, wherein the second layer of thermoplastic material is a poly(hydroxyamino ether).
7. A laminate according to Claim 1, wherein the second layer of thermoplastic material is a Copolyester Barrier Material.
8. A laminate according to Claim 1, wherein the second layer of thermoplastic material is a Polyamide comprising a polyamide and 1-10% polyethylene terephthalate.
9. A laminate according to Claim 1, wherein the second layer of thermoplastic material is polyethylene terephthalate comprising recycled or post-consumer polyethylene terephthalate.
10. A laminate in the form of a preform comprising a neck portion and a body portion, wherein at least said body portion comprises:
  - at least a first layer comprising polyethylene terephthalate having an isophthalic acid content of at least about 2% by weight bound directly to a second layer comprising a thermoplastic material, wherein said thermoplastic material is selected from the group consisting of Copolyester Barrier Materials, Phenoxy-type

Thermoplastics, Polyamides, polyethylene naphthalate, polyethylene naphthalate copolymers, polyethylene naphthalate/polyethylene terephthalate blends, and combinations thereof.

5 11. A laminate in the form of a preform according to Claim 10, wherein the body portion of the preform comprises a wall portion and an end cap and the first layer is thinner in the end cap than in the wall portion and the second layer is thicker in the end cap than in the wall portion.

12. A laminate according to Claim 11, wherein the first layer faces the preform interior.

10 13. A laminate according to Claim 10, wherein the isophthalic acid content of the polyethylene terephthalate is about 2% - 10% by weight.

14. A laminate according to Claim 10, wherein the isophthalic acid content of the polyethylene terephthalate is about 4% - 5% by weight.

15 15. A laminate according to Claim 10, wherein the barrier material is a poly(hydroxyamino ether).

16. A laminate according to Claim 10, wherein the barrier material is a Copolyester Barrier Material.

17. A laminate according to Claim 10, wherein the barrier material is a Polyamide comprising a polyamide and 1-10% polyethylene terephthalate.

20 18. A laminate in the form of a container comprising a neck portion and body portion, wherein at least said body portion comprises:

at least one layer comprising polyethylene terephthalate having an isophthalic acid content of at least about 2% by weight; and

25 at least one layer comprising a barrier material bound directly thereto, wherein said barrier material is selected from the group consisting of Copolyester Barrier Materials, Phenoxy-type Thermoplastics, Polyamides, polyethylene naphthalate, polyethylene naphthalate copolymers, polyethylene naphthalate/polyethylene terephthalate blends, and combinations thereof.

30 19. A laminate according to Claim 18, wherein the isophthalic acid content of the polyethylene terephthalate is about 2% - 10% by weight.

20. A laminate according to Claim 18, wherein the isophthalic acid content of the polyethylene terephthalate is about 4% - 5% by weight.

21. A laminate according to Claim 18, wherein the barrier material is a poly(hydroxyamino ether).

22. A laminate according to Claim 18, wherein the barrier material is a Copolyester Barrier Material.

5 23. A laminate according to Claim 18, wherein the barrier material is a Polyamide comprising a polyamide and 1-10% polyethylene terephthalate.

2000-04-01